

IN THE CLAIMS:

Claims 1-8 (Canceled)

9. (Amended) A washing machine, comprising:

a storage tank configured to store washing water;

an inner tub rotatably mounted within the storage tank;

a load part including a motor configured to rotate the tub, a water supply configured to supply water to the inner tub, and a drain configured to drain water from the inner tub; and

a control system, the control system comprising:

a memory configured to store an operation history of the washing machine;

and

a system microprocessor configured to control operation of the load part of the washing machine based on at least the operation history of the washing machine, wherein the operation history of the washing machine comprises operation records and conditions of various loads of the load part.

10. (Amended) ~~The washing machine as claimed in claim 9, further comprising~~ A washing machine, comprising:

a storage tank configured to store washing water;

an inner tub rotatably mounted within the storage tank;

a load part including a motor configured to rotate the tub, a water supply configured to supply water to the inner tub, and a drain configured to drain water from the inner tub;

a control system, the control system comprising:

a memory configured to store an operation history of the washing machine;

and

a system microprocessor configured to control operation of the load part of the washing machine based on at least the operation history of the washing machine; and a drive microprocessor configured to control the load part, wherein the system microprocessor communicates with the drive microprocessor to control operation of the load part of the washing machine based on at least the operation history of the washing machine.

11. (Previously added) The washing machine as claimed in claim 10, wherein at least one of the drive microprocessor and the memory is integrated into the system micron.

12. (Previously added) The washing machine as claimed in claim 9, further comprising:

a user interface configured to allow a user to input user preferences, wherein the system microprocessor is configured to control operation of the load part based on user preferences input by the user.

13. (Previously added) The washing machine as claimed in claim 12, wherein the user interface comprises a key input.

14. (Previously added) The washing machine as claimed in claim 12, wherein user preferences include washing stroke.

15. (Previously added) The washing machine as claimed in claim 9, further comprising a display configured to display functions and operation conditions of the washing machine.

16. (Previously added) The washing machine as claimed in claim 15, wherein the display comprises one of a LED (light emitting diode) and an LCD (liquid crystal display).

17. (Previously added) The washing machine as claimed in claim 9, further comprising an external device interface configured to allow for data exchange with an external device.

18. (Previously added) The washing machine as claimed in claim 17, wherein the external device interface comprises a PC (personal computer) or a server.

19. (Previously added) The washing machine as claimed in claim 17, wherein the external device interface comprises a communication port.

20. (Previously added) The washing machine as claimed in claim 17, wherein the external device interface and the external device exchange data according to RS-232C communication standard.

21. (Previously added) The washing machine as claimed in claim 9, wherein the memory comprises a flash memory.

22. (Canceled)

23. (Amended) The washing machine as claimed in claim ~~22~~ 9, wherein the operation records and conditions include data of one or more of temperature rise, speed of the motor, water supply time, water drain time, and out of order signals.

24. (Previously added) A washing machine, comprising:
a motor rotating at least one of an outer tub storing washing water, an inner tub rotatably provided in the outer tub for containing a load of clothes, and an agitator;
a load part that includes at least one of a water supply system supplying water into the outer tub and a water drain system draining water from the outer tub;
a driver operating the motor and the load part according to a wash cycle option selected by a user;

a memory continuously storing the user-selected wash cycle option and operation history data of the motor and the load part; and

a microprocessor configured to read the stored user-selected wash cycle option and history data from the memory and upload them to an external device when connected thereto.

25. (Previously added) The washing machine of claim 24, wherein the microprocessor further downloads new washer-operation values for one or more new wash cycle options from the external device and stores the downloaded new washer-operation values into the memory.

26. (Previously added) The washing machine of claim 24, wherein the operation history data includes at least one of a temperature of the motor, a speed of the motor, a water supply period, and a water drain period.

27. (Previously added) The washing machine of claim 24, wherein the microprocessor controls the operations of the motor and the load part according to one of the new wash cycle options.

28. (Previously added) The washing machine of claim 24, wherein at least one of the driver and the memory is integrated into the microprocessor.

29. (Previously added) The washing machine of claim 24, wherein the external device interface comprises a PC (personal computer) or a server.

30. (Previously added) The washing machine of claim 24, wherein the memory comprises a flash memory.

31. (New) A washing machine, comprising:

- a motor rotating at least one of an outer tub storing washing water, an inner tub rotatably provided in the outer tub for containing a load of clothes, and an agitator;
- a load part that includes at least one of a water supply system supplying water into the outer tub and a water drain system draining water from the outer tub;
- a driver operating the motor and the load part according to a wash cycle option selected by a user;
- a memory storing the user-selected wash cycle option and operation history data of the motor and the load part; and
- a microprocessor configured to read the stored user-selected wash cycle option and operation history data from the memory and upload them to an external device when connected thereto.